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[IP micro-mobility protocols - all 5 versions »](#)

AT Campbell, J Gomez-Castellanos - ACM SIGMOBILE Mobile Computing and Communications Review, 2000 - portal.acm.org

... This eliminates the need for signaling in support of **session key** management, which ...

forward packets prior to receiving a Mobile IP **registration request** from a ...

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[\[PS\] Distributed registration and key distribution \(DiRK\) - all 3 versions »](#)

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... is the **session key** K S encrypted with B's public key k b . Only ... It is characteristic for DiRK that the **registration request** and the registration confirmation ...

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A Albanese, R Oppliger - US Patent 6,002,768, 1999 - Google Patents

... participant has registered for a conference session, who provided that participant with a registration certificate, and provided him with the **session key** in a ...

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[\[PS\] Agent Tcl: A Flexible and Secure Mobile-agent System - all 17 versions »](#)

RS Gray - 1997 - unix.org

... registers with a server using the agent begin command, the **registration request** is digitally ... Then the IDEA private key is used as a **session key** for all further ...

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[Secure Session Key Exchange for Mobile IP Low Latency Handoffs - all 2 versions »](#)

H Kim, D Choi, D Kim - Springer-Verlag Lecture Notes in Computer Science, 2003 - Springer

... K of A-nF A : A dynamic **session key** between old FA and new FA that is calculated instantly ... M RRQ : Mobile IP Regional **Registration Request** Message. ...

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[Routing through the mist: privacy preserving communication in ubiquitous computing environments - all 19 versions »](#)

Extensible Authentication Protocol (EAP)
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Request for Comments, 2004 - levkowetz.com
... Before a period of 30 days has passed, the Designated Expert will either approve
or deny the **registration request** and publish a notice of the decision to the ...
Cited by 93 - Related Articles - Cached - Web Search

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All Results[S Kumar](#)[V Marques](#)[T Kwon](#)[J Malinen](#)[P Cohen](#)**Mobility amongst heterogeneous networks with AAA support**
M Cappiello, A Floris, L Veltri - Communications, 2002. ICC 2002. IEEE International ..., 2002 - [ieeexplore.ieee.org](#)

... for example in Attribute Value Pairs, as specified in [4, 12]), the MIP **Registration Request** and other parameters that are used by the AAA servers (local or ...

Cited by 17 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)
An IP-based QoS architecture for 4G operator scenarios - all 5 versions »
V Marques, RL Aguiar, C Garcia, JI Moreno, C ... - Wireless Communications, IEEE [see also IEEE Personal ..., 2003 - [ieeexplore.ieee.org](#)

... The authentication, authentication, and accounting (AAA) architecture [8], and the DIAMETER protocol [9], are adequate for our 4G reference environment: the ...

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An AAA Architecture Extension for Providing Differentiated Services to Mobile IP Users - all 8 versions »
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... cation information to the foreign Service Provider's AAA server (AAAF). At the same time it also has to keep the state for the pending **registration request**. ...

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Performance Evaluation of AAA/Mobile IP Authentication - all 7 versions »
A Hess, G Schafer - 2nd Polish-German Teletraffic, 2002 - [tkn.tu-berlin.de](#)

... is of type OCTetString and contains the Mobile IP **registration request** message as send by the mobile node to the foreign agent, • MIP-MN-AAA-Auth: is of ...

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... A Solution to Mobile IP Registration for AAA 333 ... with its home domain and the processes

go through as follows: (1) MH → FA 1 : **registration request** + M 3 ...

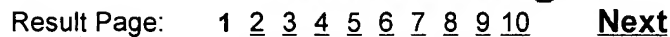
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» Key

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [next](#)Relevance scale ☐ ☐ ☐ ☐ ☐1 [A case for mobility support with temporary home agents](#)

Rong Zheng, Ye Ge, Jennifer C. Hou, Sandy R. Thuel

January 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.28 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Mobile IP standard for mobility management on the Internet enables transparent communication between mobile hosts (MHs) and their correspondent hosts (CHs). However, it suffers from triangular routing and prolonged handoff latency problems. Solutions such as route optimization and micro-mobility protocols either solve these problems partially or require costly modifications to the CHs. In this paper, we propose to use *temporary home agent* (TA) to address both problems without requiring ...

2 [Using the ASTRAL model checker to analyze mobile IP](#)

Zhe Dang, Richard A. Kemmerer

May 1999 **Proceedings of the 21st international conference on Software engineering ICSE '99**

Publisher: IEEE Computer Society Press

Full text available: [pdf\(1.16 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: ASTRAL, Encryption protocols, formal methods, formal specification and verification, real-time systems, state machines, timing requirements

3 [A new architecture for 3G and WLAN integration and inter-system handover management](#)

S. Mohanty

November 2006 **Wireless Networks**, Volume 12 Issue 6

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(405.31 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

WLAN has strong potential to provide a perfect broadband complement to the 3G wireless systems. This has raised much interest in their integration. In this paper, a novel architecture using the Network Interoperating Agent (NIA), and Integration Gateway (IG) is proposed to integrate the 3G systems and WLANs of various providers that may not necessarily have direct service level agreement (SLA) among them. The proposed

architecture is scalable as it eliminates the need for the creation of bila ...


Keywords: handover failure probability, integration of 3G wireless systems and WLANs, inter-system handover

4 A new policy-aware terminal for QoS, AAA and mobility management

Hakima Chaouchi

March 2004 **International Journal of Network Management**, Volume 14 Issue 2

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(302.42 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)


Policy-based management has been widely studied in recent years. The Internet Engineering Task Force (IETF) has recently introduced the policy-based networking as a means of managing IP networks according to the new constraints defined in the network, such as the guarantee of the quality of service (QoS). Network management based on policies, is modelled as a state machine, which moves from one state to another according to the enforced policy. The IETF policy-based networking is defined for app ...

5 Combinatorial mobile IP: a new efficient mobility management using minimized paging and local registration in mobile IP environments

Taehwan Choi, Laeyoung Kim, Jeongeun Nah, Jooseok Song

May 2004 **Wireless Networks**, Volume 10 Issue 3

Publisher: Kluwer Academic Publishers

Full text available:  pdf(247.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Combinatorial Mobile IP, a new mobility management scheme for Mobile IP, is proposed and analyzed. We present how to adopt mobility management schemes on cellular networks and adapt them in Mobile IP without disrupting the nature of the Internet. We apply widely used mobility management schemes such as hierarchical architecture and paging in cellular networks to Mobile IP. We restrict paging to the area that has to be paged using local registrations. In this way, we show that the total signaling ...

Keywords: micro-mobility protocol, mobile IP, mobility management, random walk model on a connected graph

6 An integrated platform for reliable multicast support in the regional mobile-IP environment

Hassan Omar, Tarek Saadawi, Myung Lee

April 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 2

Publisher: ACM Press

Full text available:  pdf(167.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Supporting reliable delivery of multicast datagrams, in IP networks, may necessitate the introduction of new elements and features. Further, considerable additional signaling may be required to support this service. Providing a platform that efficiently supports IP multicast delivery, in an environment where the multicast group members frequently change their locations, is a challenge for systems supporting mobility. In this paper, we describe a platform that allows the application of an interna ...

7 Modeling mobile IP in mobile UNITY

Peter J. McCann, Gruia-Catalin Roman

April 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 8 Issue 2

**Publisher:** ACM Press

Full text available: pdf(344.70 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

With recent advances in wireless communication technology, mobile computing is an increasingly important area of research. A mobile system is one where independently executing components may migrate through some space during the course of the computation, and where the pattern of connectivity among the components changes as they move in and out of proximity. Mobile UNITY is a notation and proof logic for specifying and reasoning about mobile systems. In this article it is argued that Mobile ...

Keywords: formal methods, mobile UNITY, mobile computing, shared variables, synchronization, transient interactions, weak consistency

8 [Impact of the access network topology on the handoff performance](#)

Liesbeth Peters, Ingrid Moerman, Bart Dhoedt, Piet Demeester

April 2007 **Wireless Networks**, Volume 13 Issue 2**Publisher:** Kluwer Academic Publishers

Full text available: pdf(966.56 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Micromobility protocols such as Cellular IP, Hawaii and Hierarchical Mobile IP are developed to solve problems of high handoff latency and control overhead, which occur when Mobile IP is used in combination with frequent handoffs. Up to now, tree access network topologies are considered to evaluate the protocol performance. However, for reasons of robustness against link failures and load balancing, extra uplinks and mesh links in the topology are desired. This article makes a classification ...

Keywords: IP mobility management, access network topology, micromobility, protocol performance

9 [Multicast support for mobile-IP with the hierarchical local registration approach](#)

H. Omar, T. Saadawi, M. Lee

August 2000 **Proceedings of the 3rd ACM international workshop on Wireless mobile multimedia WOWMOM '00****Publisher:** ACM Press

Full text available: pdf(1.15 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Mobile-IP (M-IP) protocol allows IP hosts to move between different networks without the need to tear down established sessions. The Mobile-IP systems supporting local registration were introduced to reduce the frequency by which home registration with the remotely located home agent is needed. Providing an efficient system that support IP multicast, in an environment where the multicast group members frequently change their locations, is a challenge for systems providing mobility suppo ...

Keywords: hierarchical mobile-IP, mobile-IP, multicast

10 [A secure infrastructure for service discovery and access in pervasive computing](#)

Jeffrey Undercoffer, Filip Perich, Andrej Cedilnik, Lalana Kagal, Anupam Joshi

April 2003 **Mobile Networks and Applications**, Volume 8 Issue 2**Publisher:** Kluwer Academic Publishers

Full text available: pdf(308.34 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Security is paramount to the success of pervasive computing environments. The system presented in this paper provides a communications and security infrastructure that goes far in advancing the goal of anywhere-anytime computing. Our work securely enables clients to access and utilize services in heterogeneous networks. We provide a service registration and discovery mechanism implemented through a hierarchy of service management. The system is built upon a simplified Public Key Infrastructure t ...


Keywords: distributed services, extensible markup language, pervasive computing, security, smartcards

11 Performance evaluation of layer 3 low latency handoff mechanisms

C. Blondia, O. Casals, L. Cerdà, N. Van den Wijngaert, G. Willems

December 2004 **Mobile Networks and Applications**, Volume 9 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  pdf(447.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper investigates the performance of two Layer 3 low latency handoff mechanisms proposed by the IETF, namely Pre- and Post-Registration. These protocols use Layer 2 triggers to reduce the built-in delay components of Mobile IP. We propose a simple analytical model that allows assessing the packet loss and the delay characteristics of these mechanisms. We describe several handoff implementations over a wireless access based on the IEEE 802.11 standard and analyze several implementation i ...


Keywords: IEEE 802.11, low latency handoff, mobile IP, performance evaluation

12 Mobility, Modeling, and Management: Performance analysis of optimized smooth handoff in mobile IP

C. Blondia, N. Van den Wijngaert, G. Willems, O. Casals

September 2002 **Proceedings of the 5th ACM international workshop on Modeling analysis and simulation of wireless and mobile systems MSWiM '02**

Publisher: ACM Press

Full text available:  pdf(1.20 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Mobile IP allows node mobility involving changes of point-of-attachment to the Internet. In order to reduce the impact on the performance and the signaling overhead, hierarchical mobility management schemes have been introduced. These schemes define protocols that allow movements within a domain to be handled locally, without involvement of the mobile node's home network. In order to reduce more the packet losses during handoff, new schemes have been defined, such as smooth handoff. By storing p ...


Keywords: OPNET, analytical modelling, micro mobility management, mobile IP, performance analysis, smooth handoff

13 Wireless Local Area Networks: Link layer assisted mobile IP fast handoff method over wireless LAN networks

Hidetoshi Yokota, Akira Idoue, Toru Hasegawa, Toshihiko Kato

September 2002 **Proceedings of the 8th annual international conference on Mobile computing and networking MobiCom '02**

Publisher: ACM Press

Full text available:  pdf(381.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The growing popularity of IEEE 802.11 has made wireless LAN a potential candidate technology for providing high speed wireless access services. Also, by supporting Mobile IP, wireless LAN can meet demands for expanded wireless access coverage while maintaining continuous connectivity from one wireless LAN to another. In the Mobile IP procedure, mobile node movement can be detected from advertisements of foreign agents that differ from the previously received advertisement and the new "care-of" a ...

Keywords: IEEE 802.11, fast handoff, mobile IP

14 Papers: A formalized and validated executable model of the SIP-based presence protocol for mobile applications



Vijay Gehlot, Anush Hayrapetyan

March 2007 **Proceedings of the 45th annual southeast regional conference ACM-SE 45**

Publisher: ACM Press

Full text available: [pdf\(523.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Presence information is one of the key aspects of mobile computing. Depending on the type of presence information, a variety of services can be built on top of a basic presence architecture. These can range from simple notification services and context-aware computing to more complex dynamic discovery and load balancing in mobile environments such as airborne web services (AWS). This paper gives details of a validated presence architecture based on the *Session Initiation Protocol* (S ...

15 Design and modelling of internode: a mobile provider provisioned VPN

Francisco Barceló, Josep Paradells, Fofy Setaki, Monique Gibeaux

February 2003 **Mobile Networks and Applications**, Volume 8 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(237.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents the design and architecture of a mobile Provider Provisioned VPN (PPVPN) together with a performance evaluation oriented model that allows first estimates of the VPN set-up delay to be computed. At the same time, some consequences of the discussion can be applied to the design of the VPN configuration parameters. Many different technologies and protocols are used: access is supplied through GPRS or WaveLANs, IP mobility is supported by Mobile IP, and the VPN is based on the I ...

Keywords: IPSec, VPN, mobile IP, mobile VPN, provider provisioned VPN

16 Mobile router technology development



William D. Ivancic, David H. Stewart, Terry L. Bell, Brian A. Kachmar, Dan Shell, Kent Leung

July 2001 **Proceedings of the 4th ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems MSWIM '01**

Publisher: ACM Press

Full text available: [pdf\(541.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Cisco System and NASA have been performing joint research on mobile routing technology under a NASA Space Act Agreement. Cisco developed mobile router technology and provided that technology to NASA for applications to aeronautic and space-based missions. NASA has performed stringent performance testing of the mobile router, including of the interaction of routing and transport level protocols. This paper describes mobile routing, the mobile router, and some key configuration parameters. In a ...

Intersystem location update and paging schemes for multitier wireless networks

Wenye Wang, Ian F. Akyildiz

August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking MobiCom '00**

Publisher: ACM Press

Full text available: pdf(1.07 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Global wireless networks enable mobile users to communicate regardless of their locations. One of the most important issues is location management in a highly dynamic environment because mobile users may roam between different wireless networks, network operators, and geographical regions. In this paper, a location tracking mechanism is introduced, which consists of intersystem location updates using the concept of boundary location area (BLA) and paging using the concept of boundary locati ...

18 A public-key based secure mobile IP

John Zao, Joshua Gahm, Gregory Troxel, Matthew Condell, Pam Helinek, Nina Yuan, Isidro Castineyra, Stephen Kent

October 1999 **Wireless Networks**, Volume 5 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: pdf(255.65 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)19 Control and integrity: New techniques for ensuring the long term integrity of digital archives

Sangchul Song, Joseph Jaja

May 2007 **Proceedings of the 8th annual international conference on Digital government research: bridging disciplines & domains dg.o '07**

Publisher: Digital Government Research Center

Full text available: pdf(607.08 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A large portion of the government, business, cultural, and scientific digital data being created today needs to be archived and preserved for future use of periods ranging from a few years to decades and sometimes centuries. A fundamental requirement of a long term archive is to ensure the integrity of its holdings. In this paper, we develop a new methodology to address the integrity of long term archives using rigorous cryptographic techniques. Our approach involves the generation of a small ...

Keywords: data integrity, digital archives, integrity audits, linked hashing

20 P-MIP: paging extensions for mobile IP

Xiaowei Zhang, Javier Gomez Castellanos, Andrew T. Campbell

April 2002 **Mobile Networks and Applications**, Volume 7 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: pdf(272.68 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As the number of Mobile IP users grows, so will the signalling overhead associated with Internet mobility management in the core IP network. This presents a significant challenge to Mobile IP as the number of mobile devices scale-up. In cellular networks, registration and paging techniques are used to minimize the signalling overhead and optimize the mobility management performance. Currently, Mobile IP supports registration but not paging. In this paper, we argue that Mobile IP should be extend ...



Keywords: Mobile IP, mobility management, paging

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1 [Using the ASTRAL model checker to analyze mobile IP](#)

Zhe Dang, Richard A. Kemmerer

 May 1999 **Proceedings of the 21st international conference on Software engineering ICSE '99**

Publisher: IEEE Computer Society Press

 Full text available: [pdf\(1.16 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: ASTRAL, Encryption protocols, formal methods, formal specification and verification, real-time systems, state machines, timing requirements

2 [Scalable support for transparent mobile host internetworking](#)

David B. Johnson

August 1995 **Wireless Networks**, Volume 1 Issue 3

Publisher: Kluwer Academic Publishers

 Full text available: [pdf\(1.10 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper considers the problem of providing transparent support for very large numbers of mobile hosts within a large internetwork such as the Internet. The availability of powerful mobile computing devices and wireless networking products and services is increasing dramatically, but internetworking protocols such as IP used in the Internet do not currently support host movement. To address this need, the Internet Engineering Task Force (IETF) is currently developing protocols for mobile ...

3 [A public-key based secure mobile IP](#)

John Zao, Joshua Gahm, Gregory Troxel, Matthew Condell, Pam Helinek, Nina Yuan, Isidro Castineyra, Stephen Kent

October 1999 **Wireless Networks**, Volume 5 Issue 5

Publisher: Kluwer Academic Publishers

 Full text available: [pdf\(255.65 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

4 [IP micro-mobility protocols](#)

Andrew T. Campbell, Javier Gomez-Castellanos

October 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume

4 Issue 4

**Publisher:** ACM Press

Full text available: pdf(1.12 MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The IETF Mobile IP Working Group is discussing a number of enhancements to the base protocol to reduce the latency, packet loss and signaling overhead experienced during handoff. In this article, we discuss a number of "micro-mobility protocols" that extend Mobile IP with fast handoff and paging capabilities. The aim of this article is not to provide an exhaustive survey of these protocols. Rather, we discuss the motivation behind micro-mobility, present common characteristics that a number of p ...

5 A public-key based secure mobile IP



John Zao, Stephen Kent, Joshua Gahm, Gregory Troxel, Matthew Condell, Pam Helinek, Nina Yuan, Isidro Castineyra

September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking MobiCom '97****Publisher:** ACM Press

Full text available: pdf(1.95 MB)

Additional Information: [full citation](#), [references](#), [citations](#)

6 The Ω key management service



Michael K. Reiter, Matthew K. Franklin, John B. Lacy, Rebecca N. Wright

January 1996 **Proceedings of the 3rd ACM conference on Computer and communications security CCS '96****Publisher:** ACM Press

Full text available: pdf(1.37 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Provably secure session key distribution: the three party case



Mihir Bellare, Phillip Rogaway

May 1995 **Proceedings of the twenty-seventh annual ACM symposium on Theory of computing STOC '95****Publisher:** ACM Press

Full text available: pdf(1.28 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 On a session key compromise problem in [KC95] protocol



Pengjun Pei, Guohua Cui, Kun Peng

July 2000 **ACM SIGOPS Operating Systems Review**, Volume 34 Issue 3**Publisher:** ACM Press

Full text available: pdf(156.61 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Depending on the implementation assumptions we have made, we give an attack to the protocol proposed by Kao and Chow in [KC95] to show that it is not always secure when the session key is compromised. We also proposed a modification to counter this attack.

9 Comparing lower bounds on messages and rounds for two classes of key establishment protocols



Anish Mathuria

October 1998 **ACM SIGCOMM Computer Communication Review**, Volume 28 Issue 5**Publisher:** ACM Press

Full text available: pdf(532.06 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

An important requirement in designing protocols for key establishment is to provide

assurance to protocol participants that a session key is fresh. This paper compares lower bounds on messages and rounds for two classes of protocols based on fundamentally different methods for achieving session key freshness.

10 An efficient and secure authentication protocol using uncertified keys ☐



I.-Lung Kao, Randy Chow

July 1995 **ACM SIGOPS Operating Systems Review**, Volume 29 Issue 3

Publisher: ACM Press

Full text available: pdf(700.52 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Most authentication protocols for distributed systems achieve identification and key distributions on the belief that the use of a uncertified key, i.e. the key whose freshness and authenticity cannot be immediately verified by its receiving principal while being received, should be avoided during the mid-way of an authentication process. In this paper we claim that using a uncertified key prudently can give performance advantages and not necessarily reduces the security of authentication protoc ...

11 Cryptographic protocols/ network security: Efficient self-healing group key distribution with revocation capability ☐



Donggang Liu, Peng Ning, Kun Sun

October 2003 **Proceedings of the 10th ACM conference on Computer and communications security CCS '03**

Publisher: ACM Press

Full text available: pdf(237.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents group key distribution techniques for large and dynamic groups over unreliable channels. The techniques proposed here are based on the self-healing key distribution methods (with revocation capability) recently developed by Staddon et al. [27]. By introducing a novel personal key distribution technique, this paper reduces (1) the communication overhead of personal key share distribution from $O(t^2 \log q)$ to $O(t \log q)$, (2) the communication overhead of self-healing key ...

Keywords: group key distribution, key management, self-healing

12 Scalable and fault-tolerant key agreement protocol for dynamic groups ☐

A. Abdel-Hafez, A. Miri, L. Orozco-Barbosa

May 2006 **International Journal of Network Management**, Volume 16 Issue 3

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(277.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the widespread use of the Internet, the popularity of group communication-based applications has grown considerably. Since most communications over the Internet involve the traversal of insecure networks, basic security services are necessary for these collaborative applications. These security services can be facilitated if the authorized group members share a common secret. In such distributed applications, key-agreement protocols are preferred to key distribution protocols. In the past t ...

13 Key management, key exchange, & pseudo-random generation: Modeling insider attacks on group key-exchange protocols ☐



Jonathan Katz, Ji Sun Shin

November 2005 **Proceedings of the 12th ACM conference on Computer and communications security CCS '05**

Publisher: ACM Press

Full text available: pdf(230.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Protocols for authenticated key exchange (AKE) allow parties within an insecure network to establish a common session key which can then be used to secure their future communication. It is fair to say that *group* AKE is currently less well understood than the case of *two-party* AKE; in particular, attacks by *malicious insiders* --- a concern specific to the group setting --- have so far been considered only in a relatively "ad-hoc" fashion. The main contribution of this work is ...

Keywords: group key exchange, insider attacks, universal composability

14 Mobile Code and Distributed Systems: The performance of public key-enabled kerberos authentication in mobile computing applications ☐



Alan Harbitter, Daniel A. Menascé

November 2001 **Proceedings of the 8th ACM conference on Computer and Communications Security CCS '01**

Publisher: ACM Press

Full text available: pdf(419.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Authenticating mobile computing users can require a significant amount of processing and communications resources-particularly when protocols based on public key encryption are invoked. These resource requirements can result in unacceptable response times for the user. In this paper, we analyze adaptations of the public key-enabled Kerberos network authentication protocol to a mobile platform by measuring the service time of a "skeleton" implementation and constructing a closed queuing network m ...

Keywords: authentication, kerberos, mobile computing, performance modeling, proxy servers, public key cryptography

15 P2P & ad hoc networks: Self-organised group key management for ad hoc networks ☐



Ling Luo, Rei Safavi-Naini, Joonsang Baek, Willy Susilo

March 2006 **Proceedings of the 2006 ACM Symposium on Information, computer and communications security ASIACCS '06**

Publisher: ACM Press

Full text available: pdf(430.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a fully distributed group key distribution protocol for ad hoc networks. The protocol uses a key pre-distribution step that is performed by each node independently and generates secure links between nodes in a neighbourhood. The key pre-distribution step also allows formation of an initiator group who will generate a session key that will be distributed to all nodes using the secure links between nodes obtained in key pre-distribution stage. We describe efficient protocols for join of ...

Keywords: Ad hoc network, key distribution, privacy homomorphism

16 New constructions for multicast re-keying schemes using perfect hash families ☐



Rei Safavi-Naini, Huaxiong Wang

November 2000 **Proceedings of the 7th ACM conference on Computer and communications security CCS '00**

Publisher: ACM Press

Full text available: pdf(384.70 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: broadcast encryption, perfect hash family, secure multicasting

17 Optimality of multi-domain protocols



Raphael Yahalom

December 1993 **Proceedings of the 1st ACM conference on Computer and communications security CCS '93**

Publisher: ACM Press

Full text available: pdf(946.44 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The encrypted key exchange (EKE) protocol is augmented so that hosts do not store cleartext passwords. Consequently, adversaries who obtain the one-way encrypted password file may (i) successfully mimic (spoof) the host to the user, and (ii) mount dictionary attacks against the encrypted passwords, but cannot mimic the user to the host. Moreover, the important security properties of EKE are preserved—an active network attacker obtains insufficient information to mount dictionary attack ...



18 A framework for password-based authenticated key exchange¹



Rosario Gennaro, Yehuda Lindell

May 2006 **ACM Transactions on Information and System Security (TISSEC)**, Volume 9 Issue 2

Publisher: ACM Press

Full text available: pdf(574.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present a general framework for password-based authenticated key exchange protocols, in the common reference string model. Our protocol is actually an abstraction of the key exchange protocol of Katz et al. and is based on the recently introduced notion of smooth projective hashing by Cramer and Shoup. We gain a number of benefits from this abstraction. First, we obtain a modular protocol that can be described using just three high-level cryptographic tools. This allows a simple ...

Keywords: Passwords, authentication, dictionary attack, projective hash functions



19 Enhanced privacy and authentication for the global system for mobile communications

Chii-Hwa Lee, Min-Shiang Hwang, Wei-Pang Yang

July 1999 **Wireless Networks**, Volume 5 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(204.97 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Global System for Mobile Communications (GSM) is widely recognized as the modern digital mobile network architecture. Increasing market demands point toward the relevancy of security-related issues in communications. The security requirements of mobile communications for the mobile users include: (1) the authentication of the mobile user and Visitor Location Register/Home Location Register; (2) the data confidentiality between mobile station and Visitor Location Register, and the data c ...



20 A methodology for analyzing the performance of authentication protocols



Alan Harbitter, Daniel A. Menascé

November 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 4

Publisher: ACM Press

Full text available: pdf(1.25 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Performance, in terms of user response time and the consumption of processing and



communications resources, is an important factor to be considered when designing authentication protocols. The mix of public key and secret key encryption algorithms typically included in these protocols makes it difficult to model performance using conventional analytical methods. In this article, we develop a validated modeling methodology to be used for analyzing authentication protocol features, and we use two ...

Keywords: Authentication, Kerberos, mobile computing, performance modeling, proxy servers, public key cryptography

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D Forsberg, Y Ohba, B Patil, H Tschofenig - draft-ietf-pana-pana-10 (work in progress), July, 2005 - [ietf.cnri.reston.va.us](#)

... Page 18. IETF56 PANA SA Establishment PaC PAA AAA AAA **Session Key** Transport PANA

SA PANA SA PANA relies on EAP methods to produce keying material for PANA SA. ...

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[Interworking architecture between 3GPP and WLAN systems - all 4 versions »](#)

K Ahmavaara, H Haverinen, R Pichna - Communications Magazine, IEEE, 2003 - [ieeexplore.ieee.org](#)

... protocol, it includes several important enhancements to extend the GSM mechanisms with mutual authentication and longer **session key** derivation. ... 3GPP AAA proxy ...

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[Secure **Session Key** Exchange for Mobile IP Low Latency Handoffs - all 2 versions »](#)

H Kim, D Choi, D Kim - Springer-Verlag Lecture Notes in Computer Science, 2003 - Springer ... extensions to the Mobile IP to allow the oFA and nFA to utilize secure **session key** exchange. It also enables rapid handoffs since AAA transactions, thus ...

[Cited by 6](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Mobility amongst heterogeneous networks with AAA support](#)

M Cappiello, A Floris, L Veltri - Communications, 2002. ICC 2002. IEEE International ..., 2002 - [ieeexplore.ieee.org](#)

... (7) MN authentication and **Session Key** generation The H-AAA authenticates the MN through a pre-existent SA (SA-MN), and authorizes it for specific services ...

[Cited by 17](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Emerging authentication and key distribution in wireless IP networks - all 14 versions »](#)

L Salgarelli, M Buddhikot, J Garay, S Patel, S ... - Wireless Communications, IEEE [see also IEEE Personal ..., 2003 - [ieeexplore.ieee.org](#)

... Allow the MN to establish that it is authenticating to a trusted H- AAA with which it shares A MN,H-AAA . S3 — **Session Key** Establishment. ...

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[Virtual operator based AAA in wireless LAN hot spots with ad-hoc networking support - all 2 versions »](#)

J Zhang, J Li, S Weinstein, N Tu - ACM SIGMOBILE Mobile Computing and Communications Review, 2002 - [portal.acm.org](#)

... authenticates with the AAA server. Upon authentication, the AAA server sends both the access point and the MT a per **session key** (encrypted). ...

[Cited by 18](#) - [Related Articles](#) - [Web Search](#)

[A Solution to Mobile IP Registration for AAA - all 3 versions »](#)

CC Yang, M Hwang, J Li, T Chang - LECTURE NOTES IN COMPUTER SCIENCE, 2003 - Springer

... MH: (M 1)PK MH Receiving the message M 1 , the MH obtains its account, MAC, a common

session key between the ... A Solution to Mobile IP Registration for AAA 333 ...

Cited by 6 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Design, Implementation, and Evaluation of Cellular IP - all 22 versions »](#)

AT Campbell, J Gomez, S Kim, AG Valko, CY Wan, Z ... - IEEE Personal Communications, 2000 - comsoc.org

... One can envision, however, micro-mobility protocols that build on global AAA preferences by offering enhanced services (eg, fast **session key** management) to ...

Cited by 308 - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

[Performance Evaluation of AAA/Mobile IP Authentication - all 7 versions »](#)

A Hess, G Schafer - 2nd Polish-German Teletraffic, 2002 - tkn.tu-berlin.de

... Nonces ("2"). - MIP-**Session-Key**: is of type OctetString and contains the **Session Key** to be ... CHAPTER 2. AAA PROCEDURES AND MESSAGE FORMATS FOR MOBILE ...

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[Proactive key distribution using neighbor graphs - all 6 versions »](#)

A Mishra, MH Shin, NL Petroni Jr, TC Clancy, WA ... - Wireless Communications, IEEE [see also IEEE Personal ...], 2004 - ieeexplore.ieee.org

... The mobile station, AAA server, and associated AP all share a common secret, a PMK, derived from the MK. • A **session key**, the PTK, is derived from the ...

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aaa "session key"

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L2	90	1 ((registration adj request or request or reg-req) (session adj key or key)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 12:39
L3	50	1 ((registration adj request or request or reg-req) with (session adj key or key)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 12:39

EAST Search History

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S2	156	S1 mobile adj node	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 09:53
S3	506	(key) with (registration adj request or reg-req)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 09:53
S4	156	S2 mobile adj node	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 10:59
S5	821	380/270.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 12:18
S6	54	380/248.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 12:14
S7	50	S6 (registration adj request or reg-req or request)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 12:15
S8	25	S6 (registration adj request or reg-req or request) with (session or key)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 12:17

EAST Search History

S9	2	S6 (registration adj request or reg-req or request) with (session or key) with aaa	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 12:19
S10	692	380/278,279.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 12:19
S11	2	S10 (registration adj request or reg-req or request) with (session or key) with aaa	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 12:26
S12	16	S10 (session or key) with aaa	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2007/06/26 12:26